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OCT 29 2004

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Abdesselem et al.

For: Radio Communication System

Serial No.: 09/779,806

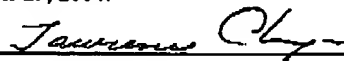
Filed: February 8, 2001

Examiner: Shah, C.

Art Unit: 2664

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October 29, 2004
(Date)

RESPONSE to Office Action dated July 29, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Responsive to an Office Action, dated July 29, 2004, with a three month period for response, the applicants present the following comments concerning the Examiner's presently articulated grounds for rejection. In view of the below noted remarks which address the Examiner's rejection of the claims, the applicants would respectfully request that the claims be reexamined and reconsidered.

While no fee is believed to be due in connection with the filing and the consideration of the present response, the applicant's representative authorizes the Commissioner to charge any fees deemed to be required by the present response including any fee required to cover any deficiency associated with any underpayment, or to credit any overpayment to Motorola's Deposit Account No. 50-2117.

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IN THE CLAIMS:

While no amendments are being made to any of the claims, as a convenience to the Examiner, a complete set of the pending claims is reproduced below.

1. (original) A communication system using multi-frame signals, each frame of the multi-frame signal being divided into a plurality of timeslots, wherein in at least one frame of the multi-frame signal first control channel information is transmitted in a first timeslot immediately preceding a second timeslot in which second control channel information is transmitted.

2. (original) The communication system as claimed in claim 1, wherein bursts containing control channel information overlap the timeslot boundary between first and second timeslots.

3. (original) The communication system as claimed in claim 1, wherein adjacent bursts containing first and second control channel information have a combined length greater than a normal burst length.

4. (original) The communication system as claimed in claim 1, wherein a single burst containing first control channel information and second control channel information is transmitted.

5. (original) The communication system as claimed in claim 1, wherein the control channel information contains information indicating the frame of the multi-frame containing the control channel information.

6. (original) The communication system as claimed in claim 1, wherein the length of a burst or the part of a burst which contains first control channel information is less than the length of a normal burst.

7. (original) The communication system as claimed in claim 1, wherein the length of a

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burst or the part of a burst containing first control channel information is variable.

8. (original) The communication system as claimed in claim 1, wherein the length of a burst or part of a burst containing first control channel information depends on the size of cells in the communication system.

9. (original) The communication system as claimed in claim 1, where the length L of a burst or the part of a burst containing first control channel information is given by:

$$L < N - d / (t_s \cdot c)$$

where N is the number of symbols between the beginning of the first timeslot and the end of the burst;

t_s is the symbol duration;

d is the distance to an adjacent base station; and

c is the speed of light.

10. (original) The communication system as claimed in claim 1, wherein the first control channel information is frequency correction information and the second control channel information is synchronization information

11. (original) A base station adapted for use in the communication system as claimed in claim 1.

12. (original) A subscriber station adapted for use in the communication system as claimed in claim 1.

13. (original) The subscriber station as claimed in claim 12, wherein the subscriber station uses frequency correction channel information to set an automatic frequency correction algorithm before decoding of synchronization channel information, this correction being a

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software correction applied on memorized samples of the synchronization channel.